Nursing

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Question: 1

The area of informatics that is most invested in assisting patients to utilize health- enabling technologies to prevent, monitor, and manage disease is:

A. public health informatics.
B. consumer health informatics.
C. translational bioinformatics.
D. clinical informatics.

Answer: B

Explanation:
The area of informatics that is most invested in assisting patients to utilized health-enabling technologies to prevent, monitor, and manage disease is consumer health informatics. Guiding patients toward self-management is an important goal of consumer health informatics, and this can include use of monitoring equipment (blood glucose monitors, cardiac monitors, BP monitors) as well as access to internet resources, such as dieting assistance (LoseIt.com) and sources that allow web-based tracking of important data, such as vital signs.

Question: 2

From the clinical nurse's perspective, NANDA-I is generally found to be most useful for:

A. planning care of patients.
B. ensuring appropriate outcomes.
C. retrieving information about disease.
D. providing appropriate interventions.

Answer: A

Explanation:
According to research, from the clinical nurse's perspective, NANDA-I (North American Nursing Diagnosis Association International) is generally found to be most useful for planning care of patients. NANDA-I is a terminology' that allows nurses to identify and classify patient problems in terms of nursing diagnoses. Utilizing this information to generate appropriate interventions and to ensure appropriate outcomes are other uses, although retrieving information is found to be less useful because many EHRs do not allow this type of information retrieval.

Question: 3

The business concept of "planned obsolescence" is utilized in the field of technology primarily to:

A. ensure organizations modernize.
B. prevent loss of functionality.
C. comply with regulatory requirements.
D. ensure market demand continues.

Answer: D

Explanation:
The business concept of "planned obsolescence" is utilized in the field of technology primarily to ensure market demand for products continues. Thus, after a period of time (usually a few years), products may be sunsetted, or phased out, so that they are no longer supported by the vendor. Because of this, healthcare organizations are almost constantly in a planning phase for acquiring new technology—hardware and/or software—in order to maintain functionality.

Question: 4

Workflow design regarding patient care requires input primarily from:

A. informatics nurses.
B. IT personnel.
C. clinicians and nurses.
D. vendor engineers.

Answer: C

Explanation:
Workflow design requires input primarily from clinicians and nurses because these professionals have the best understanding of the processes involved in patient care. IT personnel can carry out the mechanical aspects of creating and coding a workflow design, but may have little knowledge of actual clinical processes. Vendor engineers may understand the process of creating a workflow design and the system capabilities as well, but they lack the experience in the organization to know what design elements are specific to the needs of the organization or staff.

Question: 5

When planning for transition to an EHR and training needs, the informatics nurse is concerned that staff members lack necessary technological skills. The best method to assess this is probably:

A. gap analysis.
B. SWOT analysis.
C. surveys.
D. interviews.

Explanation:
The best method to assess if staff members lack necessary technological skills is to conduct a gap analysis, which evaluates current performance with target performance and determines the steps needed to move from the current performance level to the target. Gap analysis includes assessing the current situation and identifying current outcomes as well as target outcomes and then outlining processes that will help achieve the desired outcomes. Gaps in performance are identified as well as the resources required to close the gaps.

Question: 6

In a relational database, "redundancy'" refers to:

A. data that provide no valuable information.
B. backup of data in a second hosting site.
C. duplication of attribute data.
D. backup methods of accessing data.

Answer: C

Explanation:
In a relational database, "redundancy" refers to duplication of attribute data. Redundancy can cause data to be corrupted or for anomalies to occur. Redundancy is present if the same field (attribute) occurs in more than one table (entity). If an attribute depends on another non-key attribute, it is likely redundant. The process by which redundancy is eliminated is normalization. There are different levels of normalization—first normal form (INF), second normal form (2ND, and third normal form (3NF).

Question: 7

The structure of data supported by a hierarchical database is:

A. Many to many.
B. One to many.
C. Many to one.
D. One to many and many to one.

Answer: B

Explanation:
The structure of data supported by a hierarchical database is one to many (tree or parent-child) but not many to one because data connects only in descending order. Hierarchical databases are used for simple structures, such as telephone number listings, but are not adequate for the current demands of information storage; so hierarchical databases have generally been replaced

with relational databases, which are built on a table structure and allow both one-to-many and many-to-one relationships.

Question: 8

The primary disadvantage to an alert that requires manual activation for viewing is that:

A. activating the alert requires too much time.
B. activating the alert distracts healthcare providers.
C. alerts requiring activation are of little value.
D. healthcare providers may not activate the alert.

Answer: D

Explanation:
The primary disadvantage to an alert that requires manual activation for viewing is that the healthcare providers may not activate the alert unless failing to do so results in a hard stop. However, if the information is critical or should be read in all circumstances, then the alert should be automated to save the user the extra step of activating the alarm. Alerts should be carefully designed so that they are meaningful because excessive alerts tend to be ignored or overridden.

Question: 9

When utilizing SAS Enterprise guide to query a database, if the derived data are to be saved permanently, the correct format is:

A. data view.
B. report.
C. data table.
D. data table or data view.

Answer: C

Explanation:
When utilizing SAS Enterprise guide to query a database, if the derived data are to be saved permanently, the correct format is the data table. The data are saved and not updated until a query is rerun to gain additional information. With the data view format, the data are continually updated each time the results are opened and historical data are not saved. The report format is especially formatted so that it can be presented with options including HTML PDF, text, or RTF but tasks cannot be completed for results in this format.

Question: 10

If an input device is connected to the system but the system does not recognize the device, the device is in the state of:

A. undefined.
B. defined.
C. available.
D. unavailable.

Answer: A

Explanation:
When a device (such as an input or output device) is attached to an operating system, the device is undefined if the system is not able to recognize the device. Other possible states include defined (device information is in the database but not available to the system), available (device information is in the database and configured to the operating system), and unavailable (device information is present in its driver but the device is not available).

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